

INTERNATIONAL SEARCH REPORT

International application No.

PCT/03/00140

A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. ⁷ : A01K 67/00, C07K 14/47, C12Q 1/68		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) See electronic databases		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched See electronic databases		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPIDS CA MedLine Agricola. beta casein, polymorphism/allele/variant, milk, fat, saturated/unsaturated.		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96/36239 A1 (Corran Norman Stuart McLachlan) 21 November 1996	1-12, 16
A	US 6451368 B1 (Robert B Elliott, and Jeremy P Hill) 17 September 2002	1-12, 16
A	Laugeson M and Elliott R. Ischaemic heart disease, type 1 diabetes and cow milk A1 β -casein. The New Zealand Medical Journal, Jan 2003. 116(1168):1-19	1-12, 16
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 19 August 2003		Date of mailing of the international search report 22 AUG 2003
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer Gillian Allen Telephone No : (02) 6283

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	McLachlan CNS. β -casein A ¹ , ischaemic heart disease mortality, and other illnesses. Medical Hypotheses, 2001. 56(2): 262-272	1-12, 16
A	Bovenhuis H et al. Association between milk protein polymorphisms and milk production traits. J Dairy Science, 1992. 75:2549-2559	1-12, 16
A	Ojala M et al. Effects of milk protein genotypes on the variation for milk production traits of Holstein and Jersey cows in California. J Dairy Science, 1997. 80: 1776-1785	1-12, 16
A	Ikonen T et al. Association between milk protein polymorphisms and first lactation milk production traits in Finnish Ayrshire cows. J Dairy Science, 1999. 82:1026-1033	1-12, 16

Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos :
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos : 13-15
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
These claims are not limited to the technical features that define the invention. The invention is to a method of selecting and milking cows that have lower saturated/unsaturated fatty acid determined by their beta casein genotype. The invention extends to milk produced by the process. However, claims 13-15 are not limited to use of milk produced by the process defined by claim 1.
3. ☐ Claims Nos :
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/JP00140

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report	Patent Family Member
WO 96/36239	AU 55108/96, CA 2217820, EP 0871366
US 6451368	AU 39395/95, CA 2204245, EP 0789842 WO 9614577
END OF ANNEX	